

Abstract of the Disclosure

1        A system measures dynamic force of an impacting spray of air and  
2 water. A pitot-tube section is aligned to receive a longitudinal flow  
3 of impacting air/water spray in a laterally extending orifice. A first  
4 differential pressure transducer is coupled to the pitot-tube section  
5 for producing signals representative of velocity of the air/water  
6 spray at the orifice. A rain gage section adjacent to the pitot-tube  
7 section receives and collects volumes of water of the longitudinal  
8 flow of air/water spray through a laterally extending opening. A  
9 second pressure differential transducer is coupled to the rain gage  
10 section to produce signals representative of the volumes of water  
11 collected in the rain gage section. A computer-based control/readout  
12 module receives the velocity representative signals and water volume  
13 representative signals for indicating the magnitude of dynamic force  
14 attributed to impacting air/water spray in the opening.